



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20030003

Agency Interest No. 3400

Mr. Wade Allenan  
Plant Manager  
Basic Chemicals Company, LLC - Geismar Plant  
P.O. Box 227  
Baton Rouge, LA 70734-0227

RE: Part 70 Operating Permit Renewal; Offsites Area; Basic Chemicals Company, LLC – Geismar Plant; Geismar; Ascension Parish; Louisiana

Dear Mr. Allenan:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 2923-V0

Sincerely,

Chuck Carr Brown, Ph.D.  
Assistant Secretary  
CCB: kap

cc: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

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**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC – GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**I. Background**

Basic Chemicals Company, LLC (Basic), a wholly owned subsidiary of Occidental Chemical Corporation, owns and operates an industrial organic and inorganic chemicals manufacturing facility (formerly the Vulcan Chemicals – Geismar Plant (Vulcan)) in Geismar, Ascension Parish, Louisiana. Basic acquired ownership of the Vulcan facility on June 7, 2005. Basic currently operates the Geismar Plant under Consolidated Part 70 Air Permit No. 0180-00011-V3 issued to Vulcan on April 19, 2001 and Part 70 Air Permit No. 2821-V0 for the Steam Generating Unit issued to Vulcan on December 12, 2002. The consolidated permit contains permitting requirements for the Caustic/Chlorine Process Units, the F-1 Hex Furnace, the Offsites Area, and the Chlorinated Organic Units. This permit addresses the renewal of the permitting requirements for the Offsites Area, and will incorporate the permitting requirements for the Steam Generating Unit (Permit No. 2821-V0).

This is the Part 70 operating permit renewal for the Offsites Area.

**II. Origin**

Consolidated Air Permit No. 0180-00011-V0 was issued to Vulcan on October 4, 1998. As required by LAC 33:III.507.E.4, Vulcan submitted four timely and complete renewal applications and Emission Inventory Questionnaires (EIQs) on April 4, 2003, six months prior to the expiration of the permit. Four renewal applications were submitted since Vulcan requested a separation of the Consolidated Part 70 Air Permit into four individual unit specific Part 70 air permits, one each for the Caustic/Chlorine Process Units, the F-1 Hex Furnace, the Offsites Area, and the Chlorinated Organic Units.

Basic Chemicals Company, LLC acquired ownership and operation of the Vulcan facility on June 7, 2005. Basic submitted four revised renewal applications and Emission Inventory Questionnaires (EIQs) dated March 31, 2006, to reflect the recent ownership change and to incorporate updates to the renewal applications submitted by Vulcan on April 4, 2003. Each application addresses the renewal of the respective unit's Part 70 permitting requirements. This permit renewal addresses the permitting requirements for the Offsites Area. Additional information dated May 11, 2006, July 19, 2006, and August 23, 2006 was also received.

**III. Description**

**Process Description**

The Offsites Area includes the Groundwater Treatment System, the Final Effluent Process (FEP) System, the Steam Generating Unit, and the Tank Farm Vent Containment System and Shipping Area.

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**A. Groundwater Treatment System**

The Groundwater Treatment System removes solids and organics from material pumped from groundwater recovery wells. Liquid from the wells are combined into a header which flows into a clarifier. The clarifier generates a water discharge stream and a non-aqueous phase liquid discharge stream. The non-aqueous phase liquid is sent to a storage tank and destroyed in the F-1 Hex Furnace.

The water from the clarifier is filtered through cartridge filters and sent to a phase separator which separates any remaining phased organics from the water. The phased organics are sent to a waste solvent tank and destroyed in the F-1 Hex Furnace. The water phase is stripped in a steam stripper (TW-60). The steam stripper vent is also destroyed in the F-1 Hex Furnace. Following steam stripping, the treated water is sent to the Final Effluent Processing (FEP) System and discharged via an LPDES permitted outfall.

**B. Final Effluent Processing (FEP) System**

The Final Effluent Processing (FEP) System consists of several wastewater storage tanks, two air stripping towers, and a pH control system. Streams routed to the FEP System consist of boiler blowdown, cooling tower blowdown, process unit maintenance and washdown waters, treated groundwater effluent, process wastewater, sanitary wastewater, and process area stormwater runoff. All process unit maintenance and washdown wastewater from the organic process areas is sent to holding tanks prior to the air strippers. Stormwater and treated recovered groundwater are also processed through the air strippers. From the air strippers, the water is combined with wastewater from the inorganic process areas in the pH train.

**C. Steam Generating Unit**

The Steam Generating Unit consists of one natural gas fired boiler and two natural gas/hydrogen fired boilers. Air blowers provide combustion air to the boilers. Boiler feed water purity is controlled by chemical addition, deaeration, and sediment removal before it is fed to the boilers. The steam produced by the boilers is piped to various process units within the Geismar Plant.

**D. Tank Farm Vent Containment System and Shipping Area**

The Tank Farm Vent Containment System collects vent gases from product storage tanks for destruction in the F-2 Oxy Vent Furnace. Individual vents from the tanks are

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collected in several sub-headers which combine into a main header. A vacuum is used to pull the vent gas through the header network. The vent gases are compressed prior to destruction. The product storage tanks and F-2 Oxy Vent Furnace are addressed in the Chlorinated Organic Units Part 70 Air Permit with their associated process units. The only emission sources associated with the Tank Farm Vent Containment System addressed in this permit are fugitive components and General Condition XVII (GCXVII) Activities.

The Shipping Area receives raw material via railcars and barges. The raw materials include vinyl chloride, other chlorinated hydrocarbon feed stocks, methanol, and chlorine. The Shipping Area unloads the raw materials into storage tanks. Final products, stored in various tanks in the tank farm, are shipped to customers via railcars, tank trucks, barges, pipelines, and ships. Loading sources in the Shipping Area are addressed in the Chlorinated Organic Units Part 70 Air permit with their associated process units. The only emission sources associated with the Shipping Area addressed in this permit are fugitive components and GCXVII Activities.

**Permit Description**

In this Part 70 air permit renewal, Basic proposes to:

- Separate the Consolidated Part 70 Air Permit (Permit No. 0180-00011-V3 issued on April 19, 2001) into four separate Part 70 air permits (Caustic/Chlorine Process Units, F-1 Hex Furnace, Offsites Area, and Chlorinated Organic Units). This permit addresses the permitting requirements for the Offsites Area.
- Incorporate the Steam Generating Unit Part 70 Air Permit (Permit No. 2821-V0 issued on December 12, 2002) into the Offsites Area Part 70 permit.
- Update emission source calculation methodologies.
- Control emissions from TW-53B air stripper with the F-2 Oxy Vent Furnace.
- Control emissions with the F-2 Oxy Vent Furnace from three groundwater treatment tanks previously permitted as insignificant activities: CL-0060 Groundwater Clarifier and TK-0061 and TK-0062 Sludge Holding Tanks.
- Update the Offsites Area General Condition XVII and Insignificant Activities Lists.

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- Establish a new emission point, the Final Effluent Processing (FEP) System, EIQ No. 090903. Included in this emission point will be emissions from the following previously unpermitted emission sources which have no applicable state or federal regulations: EIQ Nos. 091775 (YET, TK-53), 091887 (Alkaline Wastewater Storage Tank, TK-76), 092389 (Primary pH Reaction Tank, ST-35A), 092489 (Secondary Brine Sludge Digestion Tank, ST-35B), 092589 (Primary CO<sub>2</sub> Stripping Tank, ST-36A), and 092689 (Final CO<sub>2</sub> Stripping/Primary pH Neutralization Tank, ST-36B).
- Delete Boiler B-2 as an emission source.
- Update emission source regulatory requirements.
- Revise the emissions estimates for the Offsites Fugitive Emissions (EIQ No. 092803) based on a recently completed site-wide fugitive component tagging effort and material balance evaluation.

This permit does not include any modifications to the Offsites Area, with the exception of controlling the TW-53B air stripper vent, the Groundwater Clarifier (CL-0060) and the Sludge Holding Tanks (TK-0061 and TK-0062) with the F-2 Oxy Vent Furnace. Because these are emission reduction projects and emission changes are evaluated in the Chlorinated Organic Units permit application (which includes the F-2 Oxy Vent Furnace), a Prevention of Significant Deterioration (PSD) Review and a Non-Attainment New Source Review (NNSR) are not required for this permit. The changes in emissions below are due to the emission reduction projects stated above and to the reconciliation of emissions where necessary based on updated emission factors, calculation methodologies, etc.

Estimated emissions in tons per year (TPY) for the Offsites Area are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	30.77	23.92	- 6.85
SO <sub>2</sub>	2.68	2.58	- 0.10
NO <sub>X</sub>	340.48	293.46	- 47.02
CO	157.01	142.90	- 14.11
VOC	21.45	14.88	- 6.57

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<b>VOC TAP Speciation (TPY)</b> <b>LAC 33:III.Chapter 51 Regulated VOC TAPs</b>			
<b>Pollutant</b>	<b>Before</b>	<b>After</b>	<b>Change</b>
1,1,2,2-Tetrachloroethane	NP	0.01	+ 0.01
1,1,2-Trichloroethane	NP	0.04	+ 0.04
1,2-Dibromoethane	NP	< 0.01	< 0.01
1,1-Dichloroethane	NP	0.03	+ 0.03
1,2-Dichloroethane	3.27	3.12	- 0.15
2,2,4-Trimethylpentane	NP	< 0.01	< 0.01
Benzene	NP	< 0.01	< 0.01
Carbon Tetrachloride	1.05	0.23	- 0.82
Chloroethane	0.61	0.07	- 0.54
Chloroform	1.48	1.81	+ 0.33
Hexachloro-1,3-Butadiene	0.56	0.14	- 0.42
Hexachlorobenzene	0.44	0.01	- 0.43
Hexachloroethane	0.36	0.04	- 0.32
Hexane (N-)	NP	< 0.01	< 0.01
Methanol	0.45	0.33	- 0.12
Methyl Chloride	NP	0.15	+ 0.15
Propylene Oxide	1.07	0.03	- 1.04
Toluene*	NP	< 0.01	< 0.01
Trichloroethylene	0.74	0.12	- 0.62
Urethane	NP	< 0.01	< 0.01
Vinyl Chloride	NP	0.07	+ 0.07
Vinylidene Chloride	NP	0.04	+ 0.04
Xylene (M-)*	NP	0.16	+ 0.16
<b>Total VOC TAPs</b>	<b>10.03</b>	<b>6.40</b>	<b>- 3.63</b>
<b>Other VOC (TPY):</b>			<b>8.48</b>

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<b>Non-VOC TAP Speciation (TPY)</b> <b>LAC 33:III.Chapter 51 Regulated Non-VOC TAPS</b>			
<b>Pollutant</b>	<b>Before</b>	<b>After</b>	<b>Change</b>
1,1,1-Trichloroethane	3.70	0.23	- 3.47
Dichloromethane	0.78	3.71	+ 2.93
Hydrochloric Acid	0.11	0.04	- 0.07
Tetrachloroethylene	2.85	1.23	- 1.62
<b>Total Non-VOC TAPs</b>	<b>7.44</b>	<b>5.21</b>	<b>- 2.23</b>

- Highly Reactive Volatile Organic Compound (HRVOC)
- NP Not Previously Permitted

#### **IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) regulations do not apply.

Basic Chemical's Geismar Plant is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The owner or operator of any major source that emits or is permitted to emit a Class I or Class II TAP at a rate equal to or greater than the minimum emission rate (MER) listed for that pollutant in LAC 33:III.5112, Table 51.1, shall control emissions of such TAPs to a degree that constitutes Maximum Achievable Control Technology (MACT). The following compounds are either Class I or Class II compounds, and are, facility-wide, emitted above their respective MERs: 1,1,2-trichloroethane, 1,2-dichloroethane, carbon tetrachloride, chlorobenzene, chloroform, dichloromethane, hexachloro-1,3-butadiene, tetrachloroethylene, and vinyl chloride. Sources emitting these pollutants must comply with MACT requirements. Emissions of chlorine, hydrochloric acid, and sulfuric acid (Class III TAPs), facility-wide, are also above their respective MERs, but MACT is not required for Class III or Supplemental TAPs. Basic Chemical's air toxics compliance plan (No. 92024) was approved on July 28, 1995.

#### **V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source

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would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006, and in the *Gonzales Weekly*, Gonzales, on <date>, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
N/A			

**VIII. General Condition XVII Activities**

Activity ID No.	Activity	Frequency of Activity
01-GCXVII	Steam Boiler B-4 Emergency Backup-Boiler Activities	24 days/yr
02-GCXVII	Steam Boiler BL-903 Emergency Backup-Boiler Activities	24 days/yr
03-GCXVII	Steam Boiler BL-904 Emergency Backup-Boiler Activities	24 days/yr
04-GCXVII	Steam Boiler BL-903 Startup and Shutdown	7.66 hrs/yr
05-GCXVII	Steam Boiler BL-904 Startup and Shutdown	7.66 hrs/yr
06-GCXVII	Steam Boiler BL-4 Startup and Shutdown	7.66 hrs/yr
07-GCXVII	Boiler Tube Cleaning	365 tubes/yr
08-GCXVII	Sump Emissions (Hex Acid Sump)	5,000 gals/yr
09-GCXVII	Backup Diesel Firewater Pumps	153 hrs/yr
10-GCXVII	Compressor Maintenance	4 events/yr

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Activity ID No.	Activity	Frequency of Activity
11-GCXVII	Sampling Activities	2,545 samples/yr
12-GCXVII	Filter Replacements	6 events/yr
13-GCXVII	Baker Tanks	10 tanks/yr
14-GCXVII	Sump Cleanouts	1/yr
15-GCXVII	Instrumentation Maintenance	20 events/yr
16-GCXVII	Drip Buckets	3,870 events/yr
17-GCXVII	Steaming Out Additive Drums	5 drums/yr
18-GCXVII	Diesel Pump used to Pump Excess Stormwater	600 hrs/yr
19-GCXVII	K.O. Drum Changeouts	14 events/yr
20-GCXVII	Pump Maintenance	10 pumps/yr
21-GCXVII	PDC Tank Car Offloading Hose Decoupling	396 tank cars/yr
22-GCXVII	Tank Cleaning	6 tanks/yr
23-GCXVII	Tank Strapping	378 events/yr
24-GCXVII	Trap Changeouts	4 events/yr
25-GCXVII	Line Maintenance	2,000 ft/yr
26-GCXVII	Tank Truck Loading, Inspection, and Decoupling	4,800 events/yr
27-GCXVII	Tank Car Drying, Inspection, and Decoupling	1,460 events/yr
28-GCXVII	Tank Truck Drying Connections	60 trucks/yr
29-GCXVII	Addition of Product Additives (Stabilizers)	38,300 gals/yr
30-GCXVII	Barge Loading – Disconnecting Hoses	102 events/yr
31-GCXVII	Temporary Fuel Fired Equipment for Maintenance Activities	600 hrs/yr

Activity ID No.	Total Annual Emissions (TPY)					
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Other
01-GCXVII	0.32	0.03	4.32	3.24	0.23	-
02-GCXVII	0.32	0.03	4.32	3.24	0.23	-
03-GCXVII	0.32	0.03	4.32	3.24	0.23	-
04-GCXVII	< 0.01	< 0.01	0.03	0.07	0.03	-
05-GCXVII	< 0.01	< 0.01	0.03	0.07	0.04	-
06-GCXVII	< 0.01	< 0.01	0.02	0.06	0.03	-
07-GCXVII	0.14	-	-	-	-	-
08-GCXVII	-	-	-	-	< 0.01	-
09-GCXVII	0.04	0.04	0.54	0.12	0.04	-
10-GCXVII	-	-	-	-	< 0.01	-
11-GCXVII	-	-	-	-	< 0.01	-
12-GCXVII	-	-	-	-	< 0.01	-
13-GCXVII	-	-	-	-	4.15	-
14-GCXVII	-	-	-	-	< 0.01	-
15-GCXVII					0.01	-

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Activity ID No.	Total Annual Emissions (TPY)					
	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Other
16-GCXVII	-	-	-	-	0.02	-
17-GCXVII	-	-	-	-	< 0.01	-
18-GCXVII	0.02	0.02	0.33	0.07	0.03	-
19-GCXVII	-	-	-	-	0.01	-
20-GCXVII	-	-	-	-	0.02	-
21-GCXVII	-	-	-	-	0.33	-
22-GCXVII	-	-	-	-	0.19	0.11 MeCl <sub>2</sub>
23-GCXVII	-	-	-	-	4.42	2.60 MeCl <sub>2</sub> 2.63 Perc
24-GCXVII	-	-	-	-	-	< 0.01 MeCl <sub>2</sub> < 0.01 Perc
25-GCXVII	-	-	-	-	0.04	-
26-GCXVII	-	-	-	-	3.48	0.19 MeCl <sub>2</sub>
27-GCXVII	-	-	-	-	0.18	0.01 MeCl <sub>2</sub>
28-GCXVII	-	-	-	-	< 0.01	-
29-GCXVII	-	-	-	-	0.80	-
30-GCXVII	-	-	-	-	0.25	0.10 Perc
31-GCXVII	0.33	0.31	4.65	1.00	0.38	-

#### IX. Insignificant Activities

Description	Max Rate (TPY) or Tank Capacity	Citation
D-7 Brine Tank (for water softening)	Brine	LAC 33:III.501.B.5.A.4
Utilities Unit Lab Vent Hood	0.05 TPY VOC	LAC 33:III.501.B.5.A.6
Cogen Unit Lab Vent Hood	0.05 TPY VOC	LAC 33:III.501.B.5.A.6
TK-70 Cooling Tower Water Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-71 Cooling Tower Water Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-900 Boiler Feedwater Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-901 Boiler Feedwater Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-902 Boiler Feedwater Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-903 Boiler Feedwater Treatment Tank	-	LAC 33:III.501.B.5.B.8
TK-904 Boiler Feedwater Treatment Tank	-	LAC 33:III.501.B.5.B.8

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Description	Max Rate (TPY) or Tank Capacity	Citation
TK-905 Deaerator Chemical Feed Tank	-	LAC 33:III.501.B.5.B.8
ST-30 Bisulfite Storage Tank	-	LAC 33:III.501.B.5.B.8
D-43 Caustic Tank	Caustic	LAC 33:III.501.B.5.B.40
ST-32 Caustic Storage Tank (Chrome Destruct)	Caustic	LAC 33:III.501.B.5.B.40
ST-33 Caustic Storage Tank	Caustic	LAC 33:III.501.B.5.B.40
TK-907 Caustic Storage Tank	Caustic	LAC 33:III.501.B.5.B.40
D-11 Clarified Water Tank	Water Vapor	LAC 33:III.501.B.5.C.1
D-36 North Plant Condensate Tank	Water Vapor	LAC 33:III.501.B.5.C.1
D-8A Softened Water Tank	Water Vapor	LAC 33:III.501.B.5.C.1
D-8B Softened Water Tank	Water Vapor	LAC 33:III.501.B.5.C.1
DR-901 South Plant Condensate Tank	Water Vapor	LAC 33:III.501.B.5.C.1
ST-1 Clarified Water Tank	Water Vapor	LAC 33:III.501.B.5.C.1
ST-13 Soft Water Storage Tank	Water Vapor	LAC 33:III.501.B.5.C.1
TK-61 Demin Tank (Demineralized Boiler Feedwater)	Water Vapor	LAC 33:III.501.B.5.C.1
TK-62 Demin Tank (Demineralized Boiler Feedwater)	Water Vapor	LAC 33:III.501.B.5.C.1
TK-908A Wastewater Storage Tank	Water Vapor	LAC 33:III.501.B.5.C.1
TK-908B Wastewater Storage Tank	Water Vapor	LAC 33:III.501.B.5.C.1
D-37 Deaerator (North Plant)	Water Vapor	LAC 33:III.501.B.5.C.1
EX-900 Deaerator (South Plant)	Water Vapor	LAC 33:III.501.B.5.C.1
ST-3 Clarified Water Tank	Water Vapor	LAC 33:III.501.B.5.C.1
GM-50 Sanitary Sewage Treatment Unit	-	LAC 33:III.501.B.5.C.1
TK-906 HCl Storage Tank	0.19 TPY HCl	LAC 33:III.501.B.5.D

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**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	OFFSITES AREA												LAC 33:III.Chapter					
		5 <sup>1</sup>	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	2153	22	29*	51*	56	59*
GRP026	09-UW Facility Wide		1	1	1											1	1	1	1
EQT192	090396 Offsites Cooling Tower, CT-52																		1
EQT193	090503 Steam Boiler, BL-903				1	1	1									1	2		
EQT194	090603 Steam Boiler, BL-904				1	1	1									1	2		
EQT195	100172 Steam Boiler, B-4				1	1	1									1	2		
EQT196	091193 Sludge Holding Tank, TK-0061						3											1	
EQT197	091293 Sludge Holding Tank, TK-0062						3											1	
EQT198	091393 Groundwater Clarifier, CL-0060						3											1	
FUG006	092803 Offsites Fugitive Emissions							1								1			
EQT200	091682 TW-53A Bottoms Tank, D-38															3	1		
EQT201	091587 Acidic Wastewater Storage Tank, TK-77															3	1		
EQT202	091887 Alkaline Wastewater Storage Tank, TK-76															3	1		
EQT203	092187 River Pump Surge Tank, TK-81															3	1		
EQT204	092293 Stormwater Storage Tank, TK-38															3	1		
EQT205	092389 Primary pH Reaction Tank, ST-35A															3	1		
EQT206	092489 Secondary Brine Sludge Digestion Tank, ST-35B															3	1		

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC - GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5 <sup>1</sup>	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	2153	22	29*	51*	56
EQT207	092589 Primary CO <sub>2</sub> Stripping Tank, ST-36A															3		1
EQT208	092689 Final CO <sub>2</sub> Stripping/Primary pH neutralization Tank, ST-36B															3		1
EQT209	092789 Final pH Adjustment Tank, ST-37															3		1
EQT211	100796 Wastewater Storage Tank, D-39A															3		1
EQT212	100896 Wastewater Storage Tank, D-39B															3		1
EQT213	110186 Gasoline Storage Tank, ST-60								1							3		1
EQT214	091775 YET, TK-53															3		1
EQT215	F292987 Wastewater Air Stripper, TW-53B														3		3	1
EQT217	F212703 Phase Storage Drum, D-2009								1							1		1
EQT218	F212803 TC/TR Vent Recovery Organic Collection Tank, D-40									1						1		1
EQT219	F212903 Groundwater Phase Tank, D-24									3						1		1
EQT220	F22587 Wastewater Stripper, TW-53A														3		3	1
EQT221	F27303 Effluent Overflow Drum, DR-65															1		1
EQT222	F27503 Waste Oil Collection Drum, DR-73A														3		1	1
EQT223	F27603 Waste Oil Collection Drum B, DR-73B														3		1	1
EQT224	F27898 Steam Stripper Feed Tank, TR-63														3		1	1

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**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC - GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III. Chapter																
		5 <sup>1</sup>	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	2153	22	29*	51*	56
EQT225	F28193 Steam Stripper, TW-60											1		3			1	

<sup>1</sup> LAC 33:III.C.6 citations are federally enforceable except when it specifically states that the regulation is State-Only.

\* The regulations indicated above are State-Only regulations.

**KEY TO MATRIX**

- 1    - The regulations have applicable requirements that apply to this particular emission source.  
      -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2    - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3    - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  
Blank ~ The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC – GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63 NESHPAP												40 CFR											
		A	D	Db	K	Kb	V	N	N	A	M	J	V	FF	A	F	G	H	Q	F	Z	D	G	F	Z	D	G	F	Z	D	G	64	68	82															
GRP026	09-UW Facility Wide																																																
EQT192	090396 Offsites Cooling Tower, CT-52	1																																															
EQT193	090503 Steam Boiler, BL-903																																																
EQT194	090603 Steam Boiler, BL-904																																																
EQT195	100172 Steam Boiler, B-4																																																
EQT196	091193 Sludge Holding Tank, TK-0061																																																
EQT197	091293 Sludge Holding Tank, TK-0062																																																
EQT198	091393 Groundwater Clarifier, CL-0060																																																
FUG006	092803 Offsites Fugitive Emissions																																																
EQT200	091682 TW-53A Bottoms Tank, D-38																																																
EQT201	091587 Acidic Wastewater Storage Tank, TK-77																																																
EQT202	091887 Alkaline Wastewater Storage Tank, TK-76																																																
EQT203	092187 River Pump Surge Tank, TK-81																																																
EQT204	092293 Stormwater Storage Tank, TK-38																																																
EQT205	092389 Primary pH Reaction Tank, ST-35A																																																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

OFFSITES AREA

AGENCY INTEREST NO.: 3400

BASIC CHEMICALS COMPANY, LLC - GEISMAR PLANT  
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR						
		A	D	D <sub>b</sub>	K	K <sub>b</sub>	V	N	A	M	J	V	F/F	A	F	G	H
EQT206	092489 Secondary Brine Sludge Digestion Tank, ST-35B																
EQT207	092589 Primary CO <sub>2</sub> Stripping Tank, ST-36A																
EQT208	092689 Final CO <sub>2</sub> Stripping/Primary pH neutralization Tank, ST-36B																
EQT209	092789 Final pH Adjustment Tank, ST-37																
EQT211	100796 Wastewater Storage Tank, D-39A																
EQT212	100896 Wastewater Storage Tank, D-39B																
EQT213	110186 Gasoline Storage Tank, ST-60																
EQT214	091775 YET, TK-53																
EQT215	F292987 Wastewater Air Stripper, TW-53B																
EQT217	F212703 Phase Storage Drum, D-2009																
EQT218	F212803 TC/T/T Vent Recovery Organic Collection Tank, D-40																
EQT219	F212903 Groundwater Phase Tank, D-24																
EQT220	F22587 Wastewater Stripper, TW-53A																

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

OFFSITES AREA  
AGENCY INTEREST NO.: 3400  
BASIC CHEMICALS COMPANY, LLC – GEISMAR PLANT  
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR										
		A	D	Db	K	Kb	V	N	A	M	J	V	FF	A	F	G	H	Q	F	Z	D
EQT221	F27303 Effluent Overflow Drum, DR-65																				
EQT222	F27503 Waste Oil Collection Drum, DR-73A																				
EQT223	F27603 Waste Oil Collection Drum B, DR-73B																				
EQT224	F27898 Steam Stripper Feed Tank, TK-63																				
EQT225	F28193 Steam Stripper, TW-60																				

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
  - Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC – GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
GRP026	09-UW Offsites Unit Wide	40 CFR 63 Subpart FFFF National Emission Standards for Hazardous Air Pollutants (NESHAP); Miscellaneous Organic Chemical Manufacturing (MON)	<b>DOES NOT APPLY.</b> The Offsites Unit does not meet the applicability criteria of a miscellaneous organic chemical manufacturing process unit (MCPU). [40 CFR 63.2435]
EQT192	090396 Offsites Cooling Tower, CT-52	40 CFR 63 Subpart Q NESHAP for Industrial Process Cooling Towers	<b>DOES NOT APPLY.</b> The Offsites Unit does not contain any reciprocating internal combustion engines (RICEs). [40 CFR 63.6585]
EQT193	090503 Steam Boiler, BL-903 090603 Steam Boiler, BL-904 100172 Steam Boiler, B-4	LAC 33:III.1503.C Emission Standards for Sulfur Dioxide – Emission Limitations	<b>DOES NOT APPLY.</b> Chromium-based water treatment chemicals are not used. [40 CFR 63.400] <b>EXEMPT.</b> Units emitting less than 250 tons per year (TPY) of sulfur compounds measured as sulfur dioxide may be exempted from the 2,000 ppm(v) limitation by the administrative authority. [LAC 33:III.1503.C]
EQT194			The Offsites Unit emits 2.58 TPY of sulfur dioxide.
EQT195			<b>DOES NOT APPLY.</b> Continuous monitoring is not required for sources emitting less than 100 TPY of sulfur dioxide into the atmosphere. [LAC 33:III.1511.A]
			Sources emit 1.03, 1.03, and 0.52 TPY, respectively of sulfur dioxide.

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**OFFSITES AREA**  
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**GEISMAR, ASCENSION PARISH, LOUISIANA**

## XI. Explanation for Exemption Status or Non-Applicability of a Source

XI. Explanation for Exemption Status or Non-Applicability of a Source					
ID No.	Description	Requirement		Notes	
(continued)					
EQT193	090503 Steam Boiler, BL-903	LAC 33:III.Chapter 51 Comprehensive TAP Emission Control Program	<b>EXEMPT.</b> Emissions from combustion sources burning Group I virgin fuels are exempt from the requirements of LAC 33:III.Chapter 51. [LAC 33:III.5105.B.3.a.]		
EQT194	090603 Steam Boiler, BL-904				
EQT195	100172 Steam Boiler, B-4				
EQT196	091193 Sludge Holding Tank, TK-0061	40 CFR 63 Subpart DDDDD NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters	Existing large gaseous fuel units are exempt from the emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, recordkeeping and reporting requirements of this Subpart, or any other requirements in 40 CFR 63 Subpart A, except for the initial notification requirements of 40 CFR 63.9(b). [40 CFR 63.7506(b)]	<b>DOES NOT APPLY.</b>	
EQT197	091293 Sludge Holding Tank, TK-0062				
EQT198	091393 Groundwater Clarifier, CL-0060				
EQT199					
EQT200					
EQT201					
EQT202					
EQT203					
EQT204					
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**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**OFFSITES AREA**  
**AGENCY INTEREST NO.: 3400**  
**BASIC CHEMICALS COMPANY, LLC – GEISMAR PLANT**  
**GEISMAR, ASCENSION PARISH, LOUISIANA**

**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
FUG006	092803 Offsites Fugitive Emissions	40 CFR 61 Subpart J National Emission Standard for Emission Leaks of Benzene	<b>DOES NOT APPLY.</b> The equipment in the Offsites Unit does not operate in benzene service as defined in 40 CFR 61.111. [40 CFR 61.110(a)]
			No stream in this unit contains a benzene concentration greater than 10% by weight.
		40 CFR 61 Subpart V National Emission Standard for Equipment Leaks	<b>DOES NOT APPLY.</b> The equipment in the Offsites Unit does not operate in VHAP service (vinyl chloride or benzene) as defined in 40 CFR 61.241. [40 CFR 61.240(a)]
			No stream in this unit contains a benzene concentration greater than 10% by weight.
EQT200	091682 TW-53A Bottoms Tank, D-38	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.
			VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).
		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank was not constructed, reconstructed, or modified after July 23, 1984. [40 CFR 60.110b(a)]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

OFFSITES AREA

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No. <i>(continued)</i>	Description	Requirement	Notes
EQT200	091682 TW-53A Bottoms Tank, D-38	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive wastewater as defined in 40 CFR 63.101. [40 CFR 63.132] Wastewater stream contains less than 5 ppm(w) of Table 9 compounds.
EQT201	091587 Acidic Wastewater Storage Tank, TK-77	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.  VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).
EQT202	091887 Alkaline Wastewater Storage Tank, TK-76	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.51 psia). [40 CFR 60.110(b)]  VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued) EQT202	091887 Alkaline Wastewater Storage Tank, TK-76	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.51 psia). [40 CFR 60.110b(b)]
EQT203	092187 River Pump Surge Tank, TK-81	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive wastewater as defined in 40 CFR 63.101. [40 CFR 63.132] Wastewater stream contains less than 5 ppm(w) of Table 9 compounds.
		LAC 33:III:2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33:III:2153.B.  VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).
		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.51 psia). [40 CFR 60.110b(b)]

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT203	092187 River Pump Surge Tank, TK-81	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive wastewater as defined in 40 CFR 63.101. [40 CFR 63.132] Wastewater stream contains less than 5 ppm(w) of Table 9 compounds.
EQT204	092293 Stormwater Storage Tank, TK-38	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> The Offsites Unit does not meet the definition of an affected source category as defined in LAC 33:III.2153.A. [LAC 33:III.2153.B]

40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.51 psia). [40 CFR 60.110(b)]
40 CFR 63 Subpart G	National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive process wastewater as defined in 40 CFR 63.101. [40 CFR 63.132]

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
EQT205	092389 Primary pH Reaction Tank, ST-35A	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.
EQT206	092489 Secondary Brine Sludge Digestion Tank, ST-35B		VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).
EQT207	092589 Primary CO <sub>2</sub> Stripping Tank, ST-36A		<b>DOES NOT APPLY.</b> Tank capacities are less than 19,813 gallons. [40 CFR 60.110b(a)]
EQT208	092689 Final CO <sub>2</sub> Stripping/Primary pH Neutralization Tank, ST-36B	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	VOC wastewater stream contains less than 5 ppm(w) of Table 9 compounds.
EQT209	092789 Final pH Adjustment Tank, ST-37	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive wastewater as defined in 40 CFR 63.101. [40 CFR 63.132]
EQT209	092789 Final pH Adjustment Tank, ST-37	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.
			VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
(continued) EQT209	092789 Final pH Adjustment Tank, ST-37	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.51 psia). [40 CFR 60.110(b)]
EQT211 EQT212	100796 Wastewater Storage Tank, D-39A 100896 Wastewater Storage Tank, D-39B	40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33:III.2153	<b>DOES NOT APPLY.</b> Source does not receive wastewater as defined in 40 CFR 63.101. [40 CFR 63.132] Wastewater stream contains less than 5 ppm(w) of Table 9 compounds.
		Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from these sources do not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.  VOC wastewater streams have annual average concentrations of less than 1,000 ppm(w).
		40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacities are greater than 75 m <sup>3</sup> (19,813 gallons) but less than 151 m <sup>3</sup> (40,000 gallons) and their partial pressure of VOCs are less than 15.0 kPa (2.18 psia). [40 CFR 60.110(b)]

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
EQT213	110186 Gasoline Storage Tank, ST-60	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is less than 19,813 gallons. [40 CFR 60.110b(a)]
EQT214	091775 YET, TK-53	LAC 33.III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from this source does not meet the definition of an affected VOC wastewater as defined in LAC 33.III.2153.B.  VOC wastewater stream has an annual average concentration of less than 1,000 ppm(w).

40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank was not constructed, reconstructed, or modified after July 23, 1984. [40 CFR 60.110b(a)]
40 CFR 63 Subpart G National Emission Standards for Organic Hazardous Air Pollutants (HON) from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	<b>DOES NOT APPLY.</b> Source does not receive process wastewater as defined in 40 CFR 63.101. [40 CFR 63.132]

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Description	Requirement	Notes
EQT215 EQT220	F092987 Wastewater Air Stripper, TW-53B F22587 Wastewater Stripper, TW-53A	LAC 33:III.2115 Waste Gas Disposal	<b>DOES NOT APPLY.</b> LAC 33:III.2115 does not apply to waste gas streams that are required by another federal or state regulation to implement controls that reduce VOCs to a more stringent standard than would be required by this section. Source is subject to the more stringent MACT requirements of LAC 33:III.5109.A. [LAC 33:III.2115]
		LAC 33:III.2147 Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	<b>DOES NOT APPLY.</b> Vent streams do not originate from a reactor process or distillation operation. [LAC 33:III.2147.A.1]
		LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	<b>DOES NOT APPLY.</b> Wastewater from these sources do not meet the definition of an affected VOC wastewater as defined in LAC 33:III.2153.B.
			VOC wastewater streams have annual average concentrations of less than 1,000 ppm(w).
EQT217 EQT218	F212703 Phase Storage Drum, D-2009 F212803 TC/TT Vent Recovery Organic Collection Tank, D-40	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacities are less than 19,813 gallons. [40 CFR 60.110b(a)]

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ID No:	Description	Requirement	Notes
EQT219	F212903 Ground Water Phase Tank, D-24	LAC 33:III.2103 Control of Emission of Organic Compounds – Storage of VOCs	<b>DOES NOT APPLY.</b> The vapor pressure of the liquid at storage conditions is less than 1.5 psia. [LAC 33:III.2103.A]
EQT221	F27303 Effluent Overflow Drum, DR-65	40 CFR 60 Subpart KB Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacities are less than 19,813 gallons. [40 CFR 60.110b(a)]
EQT222	F27503 Waste Oil Collection Drum A, DR-73A	LAC 33:III.2103 Control of Emission of Organic Compounds – Storage of VOCs	<b>DOES NOT APPLY.</b> Tank capacities are less than 250 gallons. [LAC 33:III.2103.A]
EQT223	F27603 Waste Oil Collection Drum B, DR-73B	40 CFR 60 Subpart KB Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacities are less than 19,813 gallons. [40 CFR 60.110b(a)]
EQT224	F27898 Steam Stripper Feed Tank, TK-63	LAC 33:III.2103 Control of Emission of Organic Compounds – Storage of VOCs	<b>DOES NOT APPLY.</b> The vapor pressure of the liquid at storage conditions is less than 1.5 psia. [LAC 33:III.2103.A]

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No: <i>(continued)</i>	Description	Requirement	Notes
EQT224	F27898 Steam Stripper Feed Tank, TK-63	40 CFR 60 Subpart Kb Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	<b>DOES NOT APPLY.</b> Tank capacity is greater than 151 m <sup>3</sup> (40,000 gallons) and its partial pressure of VOCs is less than 3.5 kPa (0.5 psia). [40 CFR 60.110b(b)]
EQT225	F28193 Steam Stripper, TW-60	LAC 33:III:2115 Waste Gas Disposal  LAC 33:III:2147 Limiting VOC Emissions from SOCMi Reactor Processes and Distillation Operations	<b>EXEMPT.</b> Vent gas stream contains a VOC concentration of less than 3,000 ppm. [LAC 33:III:2115.H.1.d] <b>DOES NOT APPLY.</b> Vent stream does not originate from a reactor process or distillation operation. [LAC 33:III:2147.A.1]

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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**XII. Equipment List**

ID No:	Description	Notes
091193	Sludge Holding Tank, TK-0061	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
091293	Sludge Holding Tank, TK-0062	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
091393	Groundwater Clarifier, CL-0060	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F092987	Wastewater Air Stripper, TW-53B	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683.
F212703	Phase Storage Drum, D-2009	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F212803	TC/TR Vent Recovery Organic Collection Tank, D-40	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F212903	Groundwater Phase Tank, D-24	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F22587	Wastewater Stripper, TW-53A	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683.
F27303	Effluent Overflow Drum, DR-65	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F27503	Waste Oil Collection Drum A, DR-73A	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683.
F27603	Waste Oil Collection Drum B, DR-73B	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683.
F27898	Steam Stripper Feed Tank, TK-63	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.
F28193	Steam Stripper, TW-60	Emissions are routed to and controlled by the F-2 Oxy Vent Furnace, EIQ No. 100683, or by the F-1 Hex Furnace, EIQ No. 100577.

**STATE-ONLY SPECIFIC CONDITIONS**

**OFFSITES AREA**

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1. Permittee shall operate a continuous flue gas oxygen meter in accordance with the attachment (Attachment 1) "Use of flue gas oxygen monitors as BACT for combustion controls" for Boilers BL-903 (EIQ No. 090503), BL-904 (EIQ No. 090603), and B-4 (EIQ No. 100172).
2. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
  - a. Changes in components involve routine maintenance, or are undertaken to address safety concerns, or involve small piping revisions with no associated emission increases except from the fugitive components themselves;
  - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than piping components;
  - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
  - d. The components are promptly incorporated into any applicable leak detection and repair program.

**40 CFR PART 70 SPECIFIC CONDITIONS**

**OFFSITES AREA**  
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1. Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the fugitive emissions programs being streamlined.
  - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H – HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
  - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
  - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on August 15 and February 15, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

<b>Unit or Plant Site</b>	<b>Programs Being Streamlined</b>	<b>Stream Applicability</b>	<b>Overall Most Stringent Program</b>
Offsites Area	LAC 33:III.2122	> 10 wt% VOC	40 CFR 63 Subpart H (HON)
	La MACT Determination for Non-HON Sources	> 5 wt% Class I and II Organic TAPs	
	40 CFR 60 Subpart VV	>10 wt% VOC	
	40 CFR 63 Subpart H (HON)	>5 wt% VHAP	
	40 CFR 264 Subpart BB	>10 wt% VOC	

**ATTACHMENT 1**

**OFFSITES AREA  
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**USE OF FLUE GAS OXYGEN MONITORS AS BACT FOR COMBUSTION CONTROLS**

Within the time limits specified in General Condition VIII of this permit, the permittee shall determine the emissions of nitrogen oxides ( $\text{NO}_x$ ) and carbon monoxide (CO) from the permitted combustion device in accordance with test methods and procedures set out in 40 CFR 60, Appendix A, Methods 7E\* and 10 respectively. These emission determinations shall be made at:

- 1) Maximum design capacity; and
- 2) Normal operational load.

The permittee shall install a continuous oxygen monitor in the flue of the permitted combustion device which meets the requirements of 40 CFR Part 60, Appendix B, Performance Specification 3. A range of excess air shall be established. The range shall be the oxygen content associated with  $\text{NO}_x$  and CO emission rates in the Title V permit. The range shall be determined such that the appropriate  $\text{NO}_x$  and CO limits are not exceeded.

The flue gas oxygen content shall be maintained within this range and alarms shall be set to sound when flue gas oxygen levels are outside of this range.

Should any combustion equipment modifications be made such as different type burners, combustion air relocation, fuel conversion, tube removal or addition, etc., emissions correlations as described above shall be conducted within 60 days of attaining full operation after such modification. Results of all emission determinations shall be sent to the permitting authority within 45 days after completion of the tests.

\* A properly installed and calibrated continuous  $\text{NO}_x$  monitor may be substituted for Method 7E.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## 40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## 40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(ii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated March 31, 2006, along with supplemental information dated May 11, 2006, July 19, 2006, and August 23, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**INVENTORIES**

AI ID: 3400 - Basic Chemicals Co LLC  
 Activity Number: PER20030003  
 Permit Number: 2923-V0  
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT192	090396 Offsites Cooling Tower, CT-52	17000 gallons/min	17000 gallons/min	17000 gallons/min		8760 hr/yr (All Year)
EQT193	090503 Steam Boiler, BL-903	249 MM BTU/hr	200000 lb/hr	249 MM BTU/hr		8760 hr/yr (All Year)
EQT194	090603 Steam Boiler, BL-904	249 MM BTU/hr	200000 lb/hr	249 MM BTU/hr		8760 hr/yr (All Year)
EQT195	100172 Steam Boiler, B-4	240 MM BTU/hr	165000 lb/hr	240 MM BTU/hr		8760 hr/yr (All Year)
EQT196	091193 Sludge Holding Tank, TK-0061					8760 hr/yr (All Year)
EQT197	091293 Sludge Holding Tank, TK-0062					8760 hr/yr (All Year)
EQT198	091393 Groundwater Clarifier, CL-0060					8760 hr/yr (All Year)
EQT200	091682 TW-53A Bottoms Tank, D-38	200000 gallons	606000 gallons/day	606000 gallons/day		8760 hr/yr (All Year)
EQT201	091687 Acidic Wastewater Storage Tank, TK-77	207000 gallons	606000 gallons/day	606000 gallons/day		8760 hr/yr (All Year)
EQT202	091887 Alkaline Wastewater Storage Tank, TK-76	500000 gallons	1.93 MM gallons/day (anticipated flow)	1.93 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT203	092187 River Pump Surge Tank, TK-81	61093 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT204	092293 Stormwater Storage Tank, TK-38	2 million gallons	107000 gallons/day	107000 gallons/day		8760 hr/yr (All Year)
EQT205	092389 Primary pH Reaction Tank, ST-35A	18000 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT206	092489 Secondary Brine Sludge Digestion Tank, ST-35B	18000 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT207	092589 Primary CO2 Stripping Tank, ST-36A	18000 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT208	092689 Final CO2 Stripping/Primary pH Neutralization Tank, ST-36B	18000 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT209	092789 Final pH Adjustment Tank, ST-37	72500 gallons	2.91 MM gallons/day (anticipated flow)	2.91 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT211	100796 Wastewater Storage Tank, D-39A	28000 gallons	515000 gallons/day	515000 gallons/day		8760 hr/yr (All Year)
EQT212	100896 Wastewater Storage Tank, D-39B	28000 gallons	515000 gallons/day	515000 gallons/day		8760 hr/yr (All Year)
EQT213	110186 Gasoline Storage Tank, ST-60	2000 gallons	30000 gallons/yr	30000 gallons/yr		8760 hr/yr (All Year)
EQT214	091775 YET, TK-53	16000 gallons	1.93 MM gallons/day (anticipated flow)	1.93 MM gallons/day (anticipated flow)		8760 hr/yr (All Year)
EQT215	F292987 Wastewater Air Stripper, TW-53B					8760 hr/yr (All Year)
EQT217	F212703 Phase Storage Drum D-2009	4500 gallons				8760 hr/yr (All Year)
EQT218	F212803 TC/TT Vent Recovery Organic Collection Tank, D-40	4212 gallons				8760 hr/yr (All Year)
EQT219	F212903 Ground Water Phase Tank, D-24	2158 gallons				8760 hr/yr (All Year)
EQT220	F22587 Wastewater Stripper, TW-53A					8760 hr/yr (All Year)
EQT221	F27303 Effluent Overflow Drum, DR-65					8760 hr/yr (All Year)
EQT222	F27503 Waste Oil Collection Drum A, DR-73A					8760 hr/yr (All Year)
EQT223	F27603 Waste Oil Collection Drum B, DR-73B					8760 hr/yr (All Year)
EQT224	F27898 Steam Stripper Feed Tank, TK-63					8760 hr/yr (All Year)
EQT225	F28193 Steam Stripper, TW-60					8760 hr/yr (All Year)
FUG006	092803 Offsites Fugitive Emissions					8760 hr/yr (All Year)

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## INVENTORIES

AI ID: 3400 - Basic Chemicals Co LLC  
Activity Number: PER20030003

Permit Number: 2923-V0  
Air - Title V Regular Permit Renewal

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP024	090903 FEP System	EQT200 091682 TW-53A Bottoms Tank, D-38
GRP024	090903 FEP System	EQT201 091587 Acidic Wastewater Storage Tank, TK-77
GRP024	090903 FEP System	EQT202 091887 Alkaline Wastewater Storage Tank, TK-76
GRP024	090903 FEP System	EQT203 092187 River Pump Surge Tank, TK-81
GRP024	090903 FEP System	EQT204 092293 Stormwater Storage Tank, TK-38
GRP024	090903 FEP System	EQT205 092389 Primary pH Reaction Tank, ST-35A
GRP024	090903 FEP System	EQT206 092489 Secondary Brine Sludge Digestion Tank, ST-35B
GRP024	090903 FEP System	EQT207 092589 Primary CO2 Stripping Tank, ST-36A
GRP024	090903 FEP System	EQT208 092689 Final CO2 Stripping/Primary pH Neutralization Tank, ST-36B
GRP024	090903 FEP System	EQT209 092789 Final pH Adjustment Tank, ST-37
GRP024	090903 FEP System	EQT211 100796 Wastewater Storage Tank, D-39A
GRP024	090903 FEP System	EQT212 100896 Wastewater Storage Tank, D-39B
GRP024	090903 FEP System	EQT214 091775 YET, TK-53
GRP024	090903 FEP System	EQT215 F292987 Wastewater Air Stripper, TW-53B
GRP024	090903 FEP System	EQT220 F23587 Wastewater Stripper, TW-53A
GRP026	Offsites Area	EQT192 0909396 Offsites Cooling Tower, CT-52
GRP026	Offsites Area	EQT193 090503 Steam Boiler, BL-903
GRP026	Offsites Area	EQT194 090603 Steam Boiler, BL-904
GRP026	Offsites Area	EQT195 100172 Steam Boiler, B-4
GRP026	Offsites Area	EQT196 091193 Sludge Holding Tank, TK-0061
GRP026	Offsites Area	EQT197 091793 Sludge Holding Tank, TK-0062
GRP026	Offsites Area	EQT198 091393 Groundwater Clarifier, CL-0060
GRP026	Offsites Area	EQT200 091682 TW-53A Bottoms Tank, D-38
GRP026	Offsites Area	EQT201 091587 Acidic Wastewater Storage Tank, TK-77
GRP026	Offsites Area	EQT202 091887 Alkaline Wastewater Storage Tank, TK-76
GRP026	Offsites Area	EQT203 092187 River Pump Surge Tank, TK-81
GRP026	Offsites Area	EQT204 092293 Stormwater Storage Tank, TK-38
GRP026	Offsites Area	EQT205 092389 Primary pH Reaction Tank, ST-35A
GRP026	Offsites Area	EQT206 092489 Secondary Brine Sludge Digestion Tank, ST-35B
GRP026	Offsites Area	EQT207 092589 Final CO2 Stripping/Primary pH Neutralization Tank, ST-36B
GRP026	Offsites Area	EQT208 092689 Final CO2 Stripping/Primary pH Neutralization Tank, ST-36B
GRP026	Offsites Area	EQT209 092789 Final pH Adjustment Tank, ST-37
GRP026	Offsites Area	EQT211 100796 Wastewater Storage Tank, D-39A
GRP026	Offsites Area	EQT212 100896 Wastewater Storage Tank, D-39B
GRP026	Offsites Area	EQT213 110186 Gasoline Storage Tank, ST-60
GRP026	Offsites Area	EQT214 091775 YET, TK-53
GRP026	Offsites Area	EQT215 F292987 Wastewater Air Stripper, TW-53B

**INVENTORIES**

AI ID: 3400 - Basic Chemicals Co LLC  
 Activity Number: PER20030003  
 Permit Number: 2923-V0  
 Air - Title V Regular Permit Renewal

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP026	Offsites Area	EQT217 F212703 Phase Storage Drum, D-2009
GRP026	Offsites Area	EQT218 F212803 TC/TT Vent Recovery Organic Collection Tank, D-40
GRP026	Offsites Area	EQT219 F212903 Ground Water Phase Tank, D-24
GRP026	Offsites Area	EQT220 F22587 Wastewater Stripper, TW-53A
GRP026	Offsites Area	EQT221 F27303 Effluent Overflow Drum, DR-65
GRP026	Offsites Area	EQT222 F27503 Waste Oil Collection Drum A, DR-73A
GRP026	Offsites Area	EQT223 F27503 Waste Oil Collection Drum B, DR-73B
GRP026	Offsites Area	EQT224 F27598 Steam Stripper Feed Tank, TK-63
GRP026	Offsites Area	EQT225 F28193 Steam Stripper, TW-60
GRP026	Offsites Area	FUG6 092803 Offsites Fugitive Emissions
GRP026	Offsites Area	GRP24 090903 FEP System

## Relationships:

## Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT193	090503 Steam Boiler, BL-903	51	77160	5.67	75	300
EQT194	090603 Steam Boiler, BL-904	51	77160	5.67	75	300
EQT195	100172 Steam Boiler, B-4	120	50776	3	52	300
EQT200	091682 TW-53A Bottoms Tank, D-38					20
EQT201	091587 Acidic Wastewater Storage Tank, TK-77					20
EQT202	091887 Alkaline Wastewater Storage Tank, TK-76					24
EQT203	092187 River Pump Surge Tank, TK-81					26
EQT204	092293 Stormwater Storage Tank, TK-38					18
EQT205	092389 Primary pH Reaction Tank, ST-35A					16
EQT206	092489 Secondary Brine Sludge Digestion Tank, ST-35B					16
EQT207	092289 Primary CO <sub>2</sub> Stripping Tank, ST-36A					16
EQT208	092689 Final CO <sub>2</sub> Stripping/Primary pH Neutralization Tank, ST-36B					16
EQT209	092789 Final pH Adjustment Tank, ST-37					16
EQT211	100796 Wastewater Storage Tank, D-39A					20
EQT212	100696 Wastewater Storage Tank, D-39B					20
EQT213	110186 Gasoline Storage Tank, ST-60				.5	25
EQT214	091775 YET, TK-53					19

## Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
EQT209			
EQT211			
EQT212			
EQT213			
EQT214			

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 090396	0.47	0.59	2.05										0.01	0.02	0.05
EQT 193 090503	1.75	1.86	7.67	0.24	0.25	1.03	23.50	24.90	102.93	8.81	9.34	38.60	0.47	0.50	2.06
EQT 194 090603	1.75	1.86	7.67	0.24	0.25	1.03	23.50	24.90	102.93	8.81	9.34	38.60	0.47	0.50	2.06
EQT 195 100172	1.49	1.79	6.53	0.12	0.14	0.52	20.00	24.00	87.60	15.00	18.00	65.70	0.80	0.96	3.50
EQT 213 110186													0.04		0.16
FUG 006 092803													1.43		6.26
GRP 024 090903													0.17	1.93	0.79

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Phase Totals:

PM10: 23.92 tons/yr  
 SO2: 2.58 tons/yr  
 NOx: 293.46 tons/yr  
 CO: 142.90 tons/yr  
 VOC: 14.88 tons/yr

### Emission rates Notes:

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

### All phases

1,1,1-Trichloroethane							1,1,2-Tetrachloroethane							1,1,2-Trichloroethane							1,1-Dichloroethane							1,2-Dibromoethane						
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year				
EQT 192 090396																																		
EQT 213 110186																																		
FUG 006 092803	0.04	0.16	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001						
GRP 024 090903	0.02	0.20	0.07	0.001	0.001	0.001	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04						

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

**All phases**

1,2-Dichloroethane			2,2,4-Trimethylpentane			Benzene			Carbon tetrachloride			Chloroethane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 090396	0.01	0.02	0.05	<	0.001	<	0.01	<	0.001	<	0.01	<	0.01	<	0.01
EQT 213 110186															
FUG 006 092803	0.62		2.71							0.05			0.21	0.01	0.06
GRP 024 090803	0.08	0.65	0.36							0.004	0.04	0.002	0.02	0.002	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

All phases

Chloroform		Dichloromethane		Hexachlorobenzene		Hexachlorobutadiene		Hexachloroethane	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 080386									
EQT 213 110186									
FUG 006 082603	0.39	1.70	0.84	3.67	< 0.001	< 0.01	0.03	0.13	0.01
GRP 024 080903	0.02	0.96	0.11	0.01	0.06	0.05	0.001	0.01	0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal .

All phases

Subject Item	Hydrochloric acid			Methanol			Methyl chlorite			Propylene oxide			Tetrachloroethylene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 090396															
EQT 213 110185															
FUG 006 092803	0.002	0.01	0.08		0.33	0.02		0.09	0.01		0.03	0.27		1.18	
GRP 024 090903	0.01	0.01	0.03				0.01	0.13	0.06			0.01	0.02	0.04	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	Toluene			Trichloroethylene			Urethane			Vinyl chloride			Vinylidene chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 090396															
EQT 213 110186	< 0.001	< 0.01													
FUG 006 092803				0.02	0.09	< 0.001	< 0.01	0.01	0.01	0.03	< 0.001		< 0.001	< 0.001	< 0.01
GRP 024 090903				0.01	0.01	0.04				0.04	0.04	0.01	0.04	0.04	0.04

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

### All phases

	Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 192 090396						
EQT 213 110186	0.04		0.16	0.001	< 0.01	
FUG 006 092803						
GRP 024 090903						

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

1,1,1-Trichloroethane: 0.23 tons/yr  
**1,1,2,2-Tetrachloroethane: 0.01 tons/yr**  
**1,1,2-Trichloroethane: 0.04 tons/yr**  
**1,1-Dichloroethane: 0.03 tons/yr**  
**1,2-Dibromoethane: <0.01 tons/yr**  
**1,2-Dichloroethane: .3 .12 tons/yr**  
**2,2,4-Trimethylpentane: <0.01 tons/yr**  
Benzene: <0.01 tons/yr  
Carbon tetrachloride: 0.23 tons/yr  
Chloroethane: 0.07 tons/yr  
Chloroform: 1.81 tons/yr  
Dichloromethane: 3.71 tons/yr  
Hexachlorobenzene: 0.01 tons/yr  
Hexachlorobutadiene: 0.14 tons/yr  
Hexachloroethane: 0.04 tons/yr  
Hydrochloric acid: 0.04 tons/yr  
Methanol: 0.33 tons/yr  
Methyl chloride: 0.15 tons/yr  
n-Hexane: <0.01 tons/yr  
Propylene oxide: 0.03 tons/yr  
Tetrachloroethylene: 1.23 tons/yr

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PIER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

### All phases

Toluene: <0.01 tons/yr  
Trichloroethylene: 0.12 tons/yr  
Urethane: <0.01 tons/yr  
Vinyl chloride: 0.07 tons/yr  
Vinylidene chloride: 0.04 tons/yr  
Xylene (mixed isomers): 0.16 tons/yr

### Emission Rates Notes:

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC  
Activity Number: PER20030003  
Permit Number: 2923-V0  
Air - Title V Regular Permit Renewal

### EQT192      090396 Offsites Cooling Tower, CT-52

1 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with all applicable provisions of 40 CFR 63 Subpart Q constitutes MACT. No additional controls are required. [LAC 33:III.5109.A]

### EQT193      090503 Steam Boiler, BL-903

2 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year    Statistical Basis: None specified

3 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year    Statistical Basis: None specified

4 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

5 Nitrogen oxides <= 0.10 lb/MMBTU. [LAC 33:III.2201.D.1]

Which Months: May-Sep    Statistical Basis: Thirty-day rolling average

6 Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c or the method in LAC 33:III.2201.E.1.c.ii. [LAC 33:III.2201.E.1.c]

7 Permittee shall demonstrate continuous compliance with the emission factors of LAC 33:III.2201.D by complying with the provisions of LAC 33:III.2201.H.1.a.i through iii. [LAC 33:III.2201.H.1.a]

8 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.ii]

Which Months: May-Sep    Statistical Basis: None specified

9 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]

10 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]

11 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]

12 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2 through 12.d. [LAC 33:III.2201.I.2]

13 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]

14 Nitrogen oxides <= 0.2 lb/MMBTU heat input (expressed as NO<sub>2</sub>). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]

Which Months: All Year    Statistical Basis: Thirty-day rolling average

15 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]

16 Method 7E of Appendix A of 40 CFR Part 60 shall be used to determine the NO<sub>x</sub> concentrations. Method 3A of Appendix A of 40 CFR Part 60 shall be used to determine oxygen concentration. [40 CFR 60.46b(f)(1)iii]

17 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-YO

Air - Title V Regular Permit Renewal

### EQT193 090503 Steam Boiler, BL-903

- 18 Permittee shall monitor firing rate and oxygen concentration (i.e., BACT Box) as an alternative to monitoring NOx emissions with a CEM, as approved in Title V Permit No. 2821-YO issued on December 12, 2002 and demonstrated during the alternative testing. [40 CFR 60.48b]
- 19 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 20 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 21 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 22 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 23 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 24 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
- 25 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 26 Permittee shall comply with the initial notification requirements of 40 CFR 63.9(b). Subpart DDDDD. [40 CFR 63.7506(b)]

### EQT194 090603 Steam Boiler, BL-904

- 27 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- 28 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified  
Which Months: All Year Statistical Basis: None specified
- 29 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 30 Nitrogen oxides <= 0.10 lb/MMBTU. [LAC 33:III.2201.D.1]  
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 31 Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii. [LAC 33:III.2201.E.1.c]  
32 Permittee shall demonstrate continuous compliance with the emission factors of LAC 33:III.2201.D by complying with the provisions of LAC 33:III.2201.H.1.a.i through iii.  
[LAC 33:III.2201.H.1.a]
- 33 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.i]  
Which Months: May-Sep Statistical Basis: None specified
- 34 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]
- 35 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER200300003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

### EQT194 090603 Steam Boiler, BL-904

- 36 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]
- 37 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2. a through I.2.d. [LAC 33:III.2201.I.2]
- 38 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I.]
- 39 Nitrogen oxides <= 0.20 lb/MMBTU heat input (expressed as NO<sub>2</sub>). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]
- Which Months: All Year Statistical Basis: Thirty-day rolling average
- 40 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 41 Method 7E of Appendix A of 40 CFR Part 60 shall be used to determine the NO<sub>x</sub> concentrations. Method 3A of Appendix A of 40 CFR Part 60 shall be used to determine oxygen concentrations. [40 CFR 60.46b(f)(1)(ii)]
- 42 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]
- 43 Permittee shall monitor firing rate and oxygen concentration (i.e., BACT Box) as an alternative to monitoring NO<sub>x</sub> emissions with a CEM, as approved in Title V Permit No. 2821-V0 issued on December 12, 2002 and demonstrated during the alternative testing. [40 CFR 60.48b]
- 44 Submit the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 45 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 46 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 47 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 48 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 49 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
- 50 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 51 Permittee shall comply with the initial notification requirements of 40 CFR 63.9(b). Subpart DDDDD. [40 CFR 63.7506(b)]

### EQT195 100172 Steam Boiler, B-4

- 52 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.110].B]
- Which Months: All Year Statistical Basis: None specified
- 53 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC  
Activity Number: PER20030003  
Permit Number: 2923-V0

### Air - Title V Regular Permit Renewal

#### EQT195      100172 Steam Boiler, B-4

- 54 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 55 Nitrogen oxides <= 0.10 lb/MMBTU. [LAC 33:III.2201.D.1]  
Which Months: May-Sep    Statistical Basis: Thirty-day rolling average
- 56 Demonstrate compliance with the facility-wide averaging plan using either the method in LAC 33:III.2201.E.1.c.i or the method in LAC 33:III.2201.E.1.c.ii. [LAC 33:III.2201.E.1.c]
- 57 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.]  
Which Months: May-Sep    Statistical Basis: None specified
- 58 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]
- 59 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]
- 60 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]
- 61 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]
- 62 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]
- 63 Nitrogen oxides <= 0.20 lb/MMBTU heat input (expressed as NO2). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]
- Which Months: All Year    Statistical Basis: Thirty-day rolling average
- 64 Conduct performance testing to demonstrate compliance with the nitrogen oxides emission standards in 40 CFR 60.44b by following 40 CFR 60.46b(e) or (f), or following 40 CFR 60.46b(g) and (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 65 Method 7E of Appendix A of 40 CFR Part 60 shall be used to determine the NOx concentrations. Method 3A of Appendix A of 40 CFR Part 60 shall be used to determine oxygen concentration. [40 CFR 60.46b(f)(1)(ii)]
- 66 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]
- 67 Permittee shall monitor firing rate and oxygen concentration (i.e., BACT Box) as an alternative to monitoring NOx emissions with a CEM, as approved in Title V Permit No. 2821-V0 issued on December 12, 2002 and demonstrated during the alternative testing. [40 CFR 60.48b]
- 68 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 69 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 70 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 71 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 72 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC  
Activity Number: PER20030003  
Permit Number: 2923-V0  
Air - Title V Regular Permit Renewal

### EQT195 100172 Steam Boiler, B-4

- 73 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
- 74 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 75 Permittee shall comply with the initial notification requirements of 40 CFR 63.9(b). Subpart DDDDD. [40 CFR 63.7506(b)]

### EQT196 091193 Sludge Holding Tank, TK-0061

- 76 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33.III.5109.A]

### EQT197 091293 Sludge Holding Tank, TK-0062

- 77 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source is equipped with a submerged fill pipe. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33.III.5109.A]

### EQT198 091393 Groundwater Clarifier, CL-0060

- 78 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33.III.5109.A]

### EQT200 091682 TW-53A Bottoms Tank, D-38

- 79 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air stripper TW-53A (EIQ No. F22587) which is routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). [LAC 33.III.5109.A]

### EQT201 091587 Acidic Wastewater Storage Tank, TK-77

- 80 Compliance with all applicable requirements of 40 CFR 63 Subpart G for Group 2 wastewater streams is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). No additional control is required. [LAC 33.III.5109.A]
- 81 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]
- 82 For wastewater streams that are Group 2 for table 9 compounds, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]

### EQT202 091887 Alkaline Wastewater Storage Tank, TK-76

**SPECIFIC REQUIREMENTS**

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

Air - Title V Regular Permit Renewal

**EQT202 091887 Alkaline Wastewater Storage Tank, TK-76**

83 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). No federal or state regulations apply due to low vapor pressure. [LAC 33:III.5109.A]

**EQT203 092187 River Pump Surge Tank, TK-81**

84 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22587) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply due to low vapor pressure. [LAC 33:III.5109.A]

**EQT204 0922293 Stormwater Storage Tank, TK-38**

85 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is routed to wastewater air stripper TW-53B (EIQ No. F092987) which is routed to the F-2 Oxy Vent Furnace (EIQ No. 100683) for emissions control. No federal or state regulations apply due to low vapor pressure. [LAC 33:III.5109.A]

**EQT205 092389 Primary pH Reaction Tank, ST-35A**

86 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22587) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply. [LAC 33:III.5109.A]

**EQT206 092489 Secondary Brine Sludge Digestion Tank, ST-35B**

87 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22587) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply. [LAC 33:III.5109.A]

**EQT207 092589 Primary CO<sub>2</sub> Stripping Tank, ST-36A**

88 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22587) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply. [LAC 33:III.5109.A]

**EQT208 092689 Final CO<sub>2</sub> Stripping/Primary pH Neutralization Tank, ST-36B**

89 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22587) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply. [LAC 33:III.5109.A]

**EQT209 092789 Final pH Adjustment Tank, ST-37**

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC

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### EQT209 092789 Final pH Adjustment Tank, ST-37

90 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). Source is located downstream of wastewater air strippers TW-53A (EIQ No. F22557) and TW-53B (EIQ No. F092987) which are routed to the F-2 Oxy Vent Furnace (EIQ No. 100683). No federal or state regulations apply. [LAC 33:III.5109.A]

### EQT211 100796 Wastewater Storage Tank, D-39A

91 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart G is determined as MACT. [LAC 33:III.5109.A]

92 For wastewater streams that are Group 2 for table 9 compounds, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]

### EQT212 100896 Wastewater Storage Tank, D-39B

93 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart G is determined as MACT. [LAC 33:III.5109.A]

94 For wastewater streams that are Group 2 for table 9 compounds, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]

### EQT213 110186 Gasoline Storage Tank, ST-60

95 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

96 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

97 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

98 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Source is equipped with a submerged fill pipe as required by LAC 33:III.2103.A, which is determined as MACT. [LAC 33:III.5109.A]

### EQT214 091775 YET, TK-53

99 No additional control is determined as Maximum Achievable Control Technology (MACT). Source is part of the Final Effluent Processing (FEP) System (EIQ No. 090903). No federal or state regulations apply. [LAC 33:III.5109.A]

### EQT215 F292987 Wastewater Air Stripper, TW-53B

100 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683) which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0). Combustion in F-2 Oxy Vent Furnace is determined as MACT. [LAC 33:III.5109.A]

101 For wastewater streams that are Group 2 for table 9 compounds, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]

### EQT217 F212703 Phase Storage Drum, D-2009

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC

Activity Number: PER20030003

Permit Number: 2923-V0

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### EQT217 F212703 Phase Storage Drum, D-2009

- 102 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]  
103 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]  
Which Months: All Year Statistical Basis: None specified  
104 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
105 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

- 106 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]  
107 Permittee shall comply with all applicable requirements of 40 CFR 63 Subpart GGGGG. [40 CFR 63.7881]  
108 Permittee shall install and operate a fixed roof according to the requirements in 40 CFR 63.902. Subpart GGGGG. [40 CFR 63.7895(c)]

### EQT218 F212803 TC/TT Vent Recovery Organic Collection Tank, D-40

- 109 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]  
110 VOC, Total  $\geq$  95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]  
Which Months: All Year Statistical Basis: None specified  
111 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
112 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

- 113 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]

### EQT219 F212903 Ground Water Phase Tank, D-24

- 114 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]

### EQT220 F22587 Wastewater Stripper, TW-53A

## SPECIFIC REQUIREMENTS

AI ID: 3400 - Basic Chemicals Co LLC  
Activity Number: PER20030003  
Permit Number: 2923-V0  
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### EQT220 F22587 Wastewater Stripper, TW-53A

- 115 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683) which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0). Combustion in F-2 Oxy Vent Furnace is determined as MACT. [LAC 33:III.5109.A]  
116 For wastewater streams that are Group 2 for table 9 compounds, the permittee shall comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3)]

### EQT221 F27303 Effluent Overflow Drum, DR-65

- 117 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]

### EQT222 F27503 Waste Oil Collection Drum A, DR-73A

- 118 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683) which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0). Combustion in F-2 Oxy Vent Furnace is determined as MACT. [LAC 33:III.5109.A]

### EQT223 F27603 Waste Oil Collection Drum B, DR-73B

- 119 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683) which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0). Combustion in F-2 Oxy Vent Furnace is determined as MACT. [LAC 33:III.5109.A]

### EQT224 F27898 Steam Stripper Feed Tank, TK-63

- 120 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EIQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EIQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]

- 121 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

### EQT225 F28193 Steam Stripper, TW-60

- 122 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

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### EQT225 F28193 Steam Stripper, TW-60

123 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions from this source shall be controlled by the F-2 Oxy Vent Furnace (EQ No. 100683), which is permitted in the Chlorinated Organic Units Title V air permit (Permit No. 2924-V0), or by the F-1 Hex Furnace (EQ No. 100577), which is permitted in the F-1 Hex Furnace Title V air permit (Permit No. 2922-V0). Combustion in F-2 Oxy Vent Furnace or F-1 Hex Furnace is determined as MACT. [LAC 33:III.5109.A]

### FUG006 092803 Offsites Fugitive Emissions

- 124 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 125 Comply with Louisiana MACT Determination for Non-HON Sources, LAC 33:III.2122, 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H (HON), and 40 CFR 264 Subpart BB by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart H (HON) in accordance with 40 CFR Part 70 Specific Condition No. 1. [La Non-HON MACT]. [LAC 33:III.2122, 40 CFR 60.480, 40 CFR 63.160]
- 126 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. For demonstrating compliance with MACT standards, this source must comply with all applicable control requirements of 40 CFR 63 Subpart H (HON). [LAC 33:III.5109.A]
- 127 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 128 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(e)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 129 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (i). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]  
Which Months: All Year Statistical Basis: None specified  
130 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]  
Which Months: All Year Statistical Basis: None specified
- 131 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(o)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 132 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 133 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 134 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.163(e)(1)]
- 135 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.163(e)(2)]

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### FUG006 092803 Offsites Fugitive Emissions

- 136 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both  
Subpart H [40 CFR 63.163(e)(3)]
- 137 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)(4)]  
Which Months: All Year Statistical Basis: None specified
- 138 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(6)(i)]
- 139 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.163(e)(6)]
- 140 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)]  
Which Months: All Year Statistical Basis: None specified
- 141 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Subpart V. [40 CFR 63.163(h)]  
Which Months: All Year Statistical Basis: None specified
- 142 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Subpart H. [40 CFR 63.163(j)(1)]
- 143 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.163(j)(2)]  
Which Months: All Year Statistical Basis: None specified
- 144 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 145 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(c)]
- 146 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 147 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 148 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 149 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 150 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart H. [40 CFR 63.164(i)(2)]  
Which Months: All Year Statistical Basis: None specified

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- 151 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- Which Months: All Year Statistical Basis: None specified
- 152 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c).
- Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- 153 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 154 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 155 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart V. [40 CFR 63.165(d)(2)]
- 156 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 157 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 158 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 159 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 160 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- Which Months: All Year Statistical Basis: None specified
- 161 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- 162 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]

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- 163 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]  
Which Months: All Year Statistical Basis: None specified
- 164 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 165 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(h)(1)]
- 166 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.168(h)(2)]  
Which Months: All Year Statistical Basis: None specified
- 167 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.168(i)(1)]
- 168 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Subpart H. [40 CFR 63.168(i)(3)]  
Which Months: All Year Statistical Basis: None specified
- 169 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]  
Which Months: All Year Statistical Basis: None specified
- 170 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 171 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 172 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]  
Which Months: All Year Statistical Basis: None specified
- 173 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]  
Which Months: All Year Statistical Basis: None specified
- 174 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.173(c)]

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- 175 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.173(d)(1)]
- 176 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Subpart H. [40 CFR 63.173(d)(2)]
- 177 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(3)]
- 178 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- 179 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(6)(i)]
- 180 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(d)(6)]
- 181 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Subpart H.
- Which Months: All Year Statistical Basis: None specified
- 182 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Subpart H. [40 CFR 63.173(g)]
- Which Months: All Year Statistical Basis: None specified
- 183 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.173(h)(1)]
- 184 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Subpart H. [40 CFR 63.173(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- 185 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 186 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.173(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 187 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
- Which Months: All Year Statistical Basis: None specified

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- 188 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
- 189 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- 190 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(ii)]
- 191 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 192 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- 193 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 194 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Subpart H. [40 CFR 63.174(f)(1)]
- 195 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Subpart H. [40 CFR 63.174(f)(2)]
- 196 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(g)]
- 197 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(h)(2)]
- 198 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(j)(1) and (j)(2). Subpart H. [40 CFR 63.174(j)]
- 199 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
- 200 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]
- 201 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 202 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]

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203 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

#### **GRP026      Offsites Area**

- 204 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 205 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 206 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 207 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 208 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 209 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 210 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G, [LAC 33:III.2901.F]
- 211 Carbon monoxide <= 142.90 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 212 Nitrogen oxides <= 293.46 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 213 Particulate matter (10 microns or less) <= 23.92 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 214 Sulfur dioxide <= 2.58 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 215 VOC, Total <= 14.88 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 216 1,1,2-Trichloroethane <= 0.04 tons/yr. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Annual maximum
- 217 1,2-Dichloroethane <= 3.12 tons/yr. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Annual maximum
- 218 Carbon tetrachloride <= 0.23 tons/yr. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Annual maximum
- 219 Chloroethane <= 0.07 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 220 Chloroform <= 1.81 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum

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- 221 Trichloroethylene <= 0.12 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 222 Vinyl chloride <= 0.07 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 223 1,1,2,2-Tetrachloroethane <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 224 1,1-Dichloroethane <= 0.03 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 225 Hexachloroethane <= 0.04 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 226 Hexachlorobutadiene <= 0.14 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 227 Hexachlorobenzene <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 228 Methyl chloride <= 0.15 tons/yr. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Annual maximum
- 229 Vinylidene chloride <= 0.04 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 230 Xylene (mixed isomers) <= 0.16 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 231 Benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: Phases: Statistical Basis: Annual maximum
- 232 n-Hexane < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 233 Methanol <= 0.33 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 234 Propylene oxide <= 0.03 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 235 Toluene < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 236 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, trans-2-Butene, Ethylene, Propylene, Xylene, m/p-Xylene, o-Xylene. (State Only). [LAC 33:III.501.C.6]
- 237 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 238 2,2,4-Trimethylpentane < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 239 1,1,1-Trichloroethane <= 0.23 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum

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- 240 Dichloromethane <= 3.71 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 241 Hydrochloric acid <= 0.04 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 242 Tetrachloroethylene <= 1.23 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 243 1,2-Dibromoethane < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 244 Urethane < 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 245 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 246 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 247 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 248 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 249 Submit Annual Emissions Report (TEDI). Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 250 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 251 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 252 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 253 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 254 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4] [LAC 33:III.5107.B.4]

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- 255 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 256 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 257 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B.]
- 258 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 259 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 260 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 261 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 262 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 263 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 264 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 265 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 266 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 267 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 268 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 269 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 270 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 271 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 272 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 273 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system to begin. [LAC 33:III.5113.C.2]

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- 274 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 275 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 276 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 277 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 278 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 279 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 280 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 281 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 282 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 283 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 284 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 285 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 286 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 287 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 288 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 289 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.9.9.A-D. [LAC 33:III.9.19.D]
- 290 Permittee shall comply with all applicable provisions of 40 CFR 60 Subpart A. [40 CFR 60.1]
- 291 Permittee shall comply with all applicable provisions of 40 CFR 61 Subpart A. [40 CFR 61.01]
- 292 Permittee shall comply with all applicable provisions of 40 CFR 61 Subpart FF. [40 CFR 61.340]

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- 293 Permittee shall comply with all applicable provisions of 40 CFR 63 Subpart A. [40 CFR 63.1]
- 294 Permittee shall comply with all applicable provisions of 40 CFR 63 Subpart DDDDD. [40 CFR 63.7485]
- 295 Permittee shall comply with all applicable provisions of 40 CFR 63 Subpart GGGGG. [40 CFR 63.7880]
- 296 Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 297 Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
- 298 Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 299 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 300 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. [40 CFR 68.150]
- 301 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). [40 CFR 68.155]
- 302 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). [40 CFR 68.160]
- 303 Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13). [40 CFR 68.165]
- 304 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). [40 CFR 68.168]
- 305 Provide in the RMP the information indicated in 68.170(b) through (k). [40 CFR 68.170]
- 306 Provide in the RMP the emergency response information listed in 68.180(a) through (c). [40 CFR 68.180]
- 307 Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 308 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 309 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. [40 CFR 68.190]
- 310 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. [40 CFR 68.200]
- 311 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. [40 CFR 68.22]
- 312 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). [40 CFR 68.25]
- 313 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). [40 CFR 68.28]
- 314 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.30]
- 315 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.33]
- 316 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]

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- 317 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36]
- 318 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses. [40 CFR 68.39]
- 319 Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release. [40 CFR 68.42]
- 320 Ensure that the process is designed in compliance with recognized and generally accepted good engineering practices. [40 CFR 68.48(b)]
- 321 Compile and maintain the up-to-date safety information listed in 68.48(a)(1) through (5) related to the regulated substances, processes, and equipment. Update the safety information if a major change occurs that makes the information inaccurate. [40 CFR 68.48]
- 322 Conduct a review of the hazards associated with the regulated substances, process, and procedures. Identify in the review the information listed in 68.50(a)(1) through (4). [40 CFR 68.50(a)]
- 323 Determine whether the process is designed, fabricated, and operated in accordance with the applicable standards or rules by inspecting all equipment during the hazard review, for processes designed to meet industry standards or Federal or state design rules. [40 CFR 68.50(b)]
- 324 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the results of the hazard review. [40 CFR 68.50(c)]
- 325 Ensure that problems identified during the hazard review are resolved in a timely manner. [40 CFR 68.50(c)]
- 326 Update the hazard review at least once every five years. Also conduct reviews whenever a major change in the process occurs; resolve all issues identified in the review before startup of the changed process. [40 CFR 68.50(d)]
- 327 Ensure that the operating procedures are updated, if necessary, whenever a major change occurs and prior to startup of the changed process. [40 CFR 68.52(c)]
- 328 Prepare written operating procedures that provide clear instructions or steps for safely conducting activities associated with each covered process consistent with the safety information for that process. Address in the procedures the information listed in 68.52(b)(1) through (8). [40 CFR 68.52]
- 329 Ensure that each employee presently operating a process, and each employee newly assigned to a covered process, have been trained or tested competent in the operating procedures provided in 68.52 that pertain to their duties. [40 CFR 68.54(a)]
- 330 Provide refresher training at least every three years, and more often if necessary, to each employee operating a process to ensure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.54(b)]
- 331 Ensure that operators are trained in any updated or new procedures prior to startup of a process after a major change. [40 CFR 68.54(d)]
- 332 Prepare and implement procedures to maintain the on-going mechanical integrity of the process equipment. [40 CFR 68.56(a)]
- 333 Train or cause to be trained each employee involved in maintaining the on-going mechanical integrity of the process. To ensure that the employee can perform the job tasks in a safe manner, train each employee in the hazards of the process, in how to avoid or correct unsafe conditions, and in the procedures applicable to the employee's job tasks. [40 CFR 68.56(b)]
- 334 Perform or cause to be performed inspections and test on process equipment. Follow recognized and generally accepted good engineering practices. Make the frequency of inspections and tests of process equipment consistent with applicable manufacturers' recommendations, industry standards or codes, good engineering practices, and prior operating experience. [40 CFR 68.56(d)]
- 335 Develop a report of the findings of the compliance audit required by 40 CFR 68.58(a). [40 CFR 68.58(c)]
- 336 Promptly determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.58(d)]
- 337 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.58(d)]

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- 338 Retain the two (2) most recent compliance audit reports. [40 CFR 68.58(e)]
- 339 Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process. [40 CFR 68.58]
- 340 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the investigation findings and recommendations. [40 CFR 68.60(d)]
- 341 Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in, a catastrophic release. [40 CFR 68.60]
- 342 Prepare a summary at the conclusion of the investigation which includes, at a minimum, the information specified in 40 CFR 68.60(c)(1) through (5). Promptly address and resolve the investigation findings and recommendations. Review findings with all affected personnel whose job tasks are affected by the findings. Retain investigation summaries for five years. [40 CFR 68.60]
- 343 Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 344 Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 345 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 346 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 347 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 348 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.5(c)(5)(iv)]